

# PM 2.5 24-hr. Standard 2008

(98<sup>th</sup> percentile values by year and site, 24-hr. samples, in ug/m<sup>3</sup>)

Updated 3/10/2010

Events excluded

| Site                      | 2005      | 2006      | 2007      | 2008      | 2005-2007<br>Avg.*<br>(3-yr. block) | 2006-2008<br>Avg.*<br>(3-yr. block) |
|---------------------------|-----------|-----------|-----------|-----------|-------------------------------------|-------------------------------------|
| Brigham City              | 25.9      | 28.5      | 33.6      | 42.7      | 29.3                                | 34.9                                |
| Logan #4                  | 61.7      | 29.2      | 35.2      | 42.8      | 42.0                                | 35.7                                |
| Bountiful                 | 35.1      | 34.1      | 45.1      | 25.8      | 38.1                                | 35.0                                |
| Cottonwood                | 42        | 39.2      | 58.4      | 36.5      | 46.5                                | 44.7                                |
| N. Salt Lake              | 44.4      | 39.9      | 79.2      | #         | 54.5                                | N/A                                 |
| Herriman #2               | 27.3      | 22        | 23.1      | ****      | 24.1                                | N/A                                 |
| Hawthorne                 | 43.3      | 37.6      | 64.2      | 35.7      | 48.4                                | 45.8                                |
| West Valley               | 39.5      | 38.5      | 49.4      | ****      | 42.5                                | N/A                                 |
| Magna                     | 36.7      | 29.3      | 30        | 27.4      | 32.0                                | 28.9                                |
| Tooele #3 **              | 45.5      | 22.8      | 23.3      | 19.4      | 30.5                                | 21.8                                |
| N. Provo                  | 35.6      | 25.6      | 50.3      | 34.1      | 37.2                                | 36.7                                |
| Lindon                    | 36.7      | 32        | 64.9      | 35.5      | 44.5                                | 44.1                                |
| Highland                  | 33.7      | 23.9      | 51.5      | 24.6      | 36.4                                | 33.3                                |
| Spanish. Fork             | 32.4      | 21.6      | 55        | 26.2      | 36.3                                | 34.3                                |
| Ogden #2                  | 29.8      | 25.8      | 50.4      | 32.3      | 35.3                                | 36.2                                |
| Wash. Terrace             | 25.9      | 23.5      | 44.2      | ****      | 31.2                                | N/A                                 |
| Harrisville               | 28.3      | 28.6      | 45.2      | 29.8      | 34.0                                | 34.5                                |
| Rose Park                 |           |           | 33.8 ***  | 37.5      | N/A                                 | N/A                                 |
| <b>Avg. of all sites:</b> | <b>37</b> | <b>30</b> | <b>47</b> | <b>36</b> | <b>38</b>                           | <b>36</b>                           |

\* Calculated from 98<sup>th</sup> percentile values obtained from EPA/AQS Quicklook reports.

\*\* Tooele #3 starts July 6, 2005.

\*\*\*Rose Park starts April 2007

# North Salt Lake ends June 2007

† Calculations based on “excluded/included” exceptional event data.

^ Logan 98<sup>th</sup> percentile for 2005 based on combined reference and collocated data; collocated data collected daily at this site.

\*\*\*\* Herriman, Washington Terrace, and West Valley stations were removed in April 30, 2008.

[Current PM 2.5 standard: A violation occurs when the 3-yr. average of the 98<sup>th</sup> percentile value at a site (rounded to the nearest whole number) exceeds 65 ug/m<sup>3</sup>].

The 2006 Violation Point column lists the maximum allowable 98<sup>th</sup> percentile value to be calculated for 2006 (at a given site) that would avoid a violation of the standard for the 2004 – 2006 3-yr. block; only the Logan site appears to be likely to violate the 3-yr. standard for 2004 – 2006, based on data from past typical years.